

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
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PRODUCT EVALUATION

DR-601

Effective Date: March 1, 2013

Reevaluation Date: **November 2016**

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

8'-0" Opaque Fiberglass Impact Resistant Doors, Inswing & Outswing, Singles & Doubles with and without Non-impact Sidelites, manufactured by

**Therma-Tru Corporation
118 Industrial Drive
Edgerton, OH 43517
Telephone: (419) 298-1740**

General Description:

System	Description	Label Rating	Drawing Number
1	3'-6" x 8'-0" Classic Craft Rustic Opaque Fiberglass Single Door, Radius Top, Inswing/Outswing (X)	Inswing +65/-65 psf Outswing +65/-65 psf	TX-4177
2	3'-0" x 8'-0" Smooth Star and Fiber Classic Opaque Fiberglass Single Door, Inswing/Outswing (X)	Inswing +65/-65 psf Outswing +65/-65 psf	TX-4178
3	3'-6" x 8'-0" Classic Craft and Classic Craft Rustic Opaque Fiberglass Single Door, Inswing/Outswing (X)	Inswing +65/-65 psf Outswing +65/-65 psf	TX-4179

General Description (continued):

System	Description	Label Rating	Drawing Number
4	3'-0" x 8'-0" Opaque Fiberglass Single Door, w/Sidelite Inswing/Outswing (OX/XO)	Inswing +65/-65 psf Outswing +65/-65 psf	TX-4180
5	3'-6" x 8'-0" Opaque Fiberglass Single Door, w/Sidelite Inswing/Outswing (OX/XO)	Inswing +65/-65 psf Outswing +65/-65 psf	TX-4181
6	3'-0" x 8'-0" Opaque Fiberglass Single Door, w/ Sidelite Inswing/Outswing (OXO)	Inswing +65/-65 psf Outswing +65/-65 psf	TX-4182
7	3'-6" x 8'-0" Opaque Fiberglass Single Door, w/ Sidelite Inswing/Outswing (OXO)	Inswing +65/-65 psf Outswing +65/-65 psf	TX-4183
8	6'-0" x 8'-0" Opaque Fiberglass Double Door, Inswing/Outswing (XX)	Inswing +65/-65 psf Outswing +65/-65 psf	TX-4176
9	6'-0" x 8'-0" Opaque Fiberglass Double Door, w/ Sidelites Inswing/Outswing (OXXO)	Inswing +65/-65 psf Outswing +65/-65 psf	TX-4175

Component Dimensions:

System	Overall Size	Panel Size	Overall Daylight Panel Size	Maximum Daylight Opening Size
1	Inswing: 43 $\frac{3}{4}$ " x 98" Outswing: 43 $\frac{3}{4}$ " x 96 $\frac{1}{2}$ "	42" x 95 $\frac{1}{4}$ "	NA	NA
2	Inswing: 37 $\frac{3}{4}$ " x 98" Outswing: 37 $\frac{3}{4}$ " x 96 $\frac{1}{2}$ "	36" x 95 $\frac{1}{4}$ "	NA	NA

Component Dimensions:

System	Overall Size	Panel Size	Overall Daylight Panel Size	Maximum Daylight Opening Size
3	Inswing: 43 $\frac{3}{4}$ " x 98" Outswing: 43 $\frac{3}{4}$ " x 96 $\frac{1}{2}$ "	42" x 95 $\frac{1}{4}$ "	NA	NA
4	Inswing: 54" x 98" Outswing: 54" x 96 $\frac{1}{2}$ "	36" x 95 $\frac{1}{4}$ "	13 $\frac{3}{4}$ " x 95 $\frac{1}{4}$ "	6 $\frac{3}{4}$ " x 79"
5	Inswing: 60" x 98" Outswing: 60" x 96 $\frac{1}{2}$ "	42" x 95 $\frac{1}{4}$ "	13 $\frac{3}{4}$ " x 95 $\frac{1}{4}$ "	6 $\frac{3}{4}$ " x 79"
6	Inswing: 70 $\frac{1}{4}$ " x 98" Outswing: 70 $\frac{1}{4}$ " x 96 $\frac{1}{2}$ "	36" x 95 $\frac{1}{4}$ "	13 $\frac{3}{4}$ " x 95 $\frac{1}{4}$ "	6 $\frac{3}{4}$ " x 79"
7	Inswing: 76 $\frac{1}{4}$ " x 98" Outswing: 76 $\frac{1}{4}$ " x 96 $\frac{1}{2}$ "	36" x 95 $\frac{1}{4}$ "	13 $\frac{3}{4}$ " x 95 $\frac{1}{4}$ "	6 $\frac{3}{4}$ " x 79"
8	Inswing: 74 $\frac{1}{2}$ " x 98" Outswing: 74 $\frac{1}{2}$ " x 96 $\frac{1}{2}$ "	36" x 95 $\frac{1}{4}$ "	NA	NA
9	Inswing: 107" x 98" Outswing: 107" x 96 $\frac{1}{2}$ "	36" x 95 $\frac{1}{4}$ "	13 $\frac{3}{4}$ " x 95 $\frac{1}{4}$ "	6 $\frac{3}{4}$ " x 79"

Hardware:

System	Component	Quantity	Attachment Method
1-9	4" Butt Hinges	4	Hardware and components shall be installed in accordance with Therma-Tru Corporation drawings TX-4177, TX-4178, TX-4179, TX-4180, TX-4181, TX-4182, TX-4183, TX-4176 and TX-4177, dated July 16, 2012, signed and sealed by Lyndon F. Schmidt, P.E. on November 19, 2012.
	Lock and deadbolt strike plate	1 per lockset and deadbolt	
	Kwikset 200 Series Passage Lock and Kwikset 600 Series Deadbolt	1	

Product Identification (Certification Agency Label on Door):

System		
1	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation, Edgerton, OH
	Product Name	Classic Craft Rustic Opaque Fiberglass Single Door, Radius Top
	Test Standards	ASTM E330-02; ASTM E 1886-02; ASTM E 1996-02

Product Identification (Certification Agency Label on Door):

System		
2	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation, Edgerton, OH
	Product Name	Opaque Fiberglass Single Door (Smooth Star and Fiber Classic)
	Test Standards	ASTM E330-02; ASTM E 1886-02; ASTM E 1996-02
3	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation, Edgerton, OH
	Product Name	Opaque Fiberglass Single Door (Classic Craft and Classic Craft Rustic)
	Test Standards	Opaque Door: ASTM E330-02; ASTM E 1886-02; ASTM E 1996-02; Sidelite: ASTM E330-02
4	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation, Edgerton, OH
	Product Name	Opaque Fiberglass Single Door with Boxed Sidelites and Combination Reinforced Mullion (Smooth Star and Fiber Classic)
	Test Standards	Opaque Door: ASTM E330-02; ASTM E 1886-02; ASTM E 1996-02; Sidelite: ASTM E330-02
5	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation, Edgerton, OH
	Product Name	Opaque Fiberglass Single Door with Boxed Sidelites and Combination Reinforced Mullion (Classic Craft and Classic Craft Rustic)
	Test Standards	Opaque Door: ASTM E330-02; ASTM E 1886-02; ASTM E 1996-02; Sidelite: ASTM E330-02
6	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation, Edgerton, OH
	Product Name	Opaque Fiberglass Door with Boxed Sidelites and Combination Reinforced Mullion (Smooth Star and Fiber Classic)
	Test Standards	Opaque Door: ASTM E330-02; ASTM E 1886-02; ASTM E 1996-02; Sidelite: ASTM E330-02
7	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation, Edgerton, OH
	Product Name	Opaque Fiberglass Door with Boxed Sidelites and Combination Reinforced Mullion (Classic Craft and Classic Craft Rustic)
	Test Standards	Opaque Door: ASTM E330-02; ASTM E 1886-02; ASTM E 1996-02; Sidelite: ASTM E330-02
8	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation, Edgerton, OH
	Product Name	Opaque Fiberglass Double Door (Smooth Star, Fiber Classic, Classic Craft and Classic Craft Rustic)
	Test Standards	Opaque Door: ASTM E330-02; ASTM E 1886-02; ASTM E 1996-02

Product Identification (Certification Agency Label on Door):

System		
9	Certification Agency	Self-labeled by manufacturer
	Manufacturer's Name or Code Name	Therma-Tru Corporation, Edgerton, OH
	Product Name	Opaque Fiberglass Double Door with Boxed Sidelites and Combination Reinforced Mullion (Classic Craft and Classic Craft Rustic)
	Test Standards	Opaque Door: ASTM E330-02; ASTM E 1886-02; ASTM E 1996-02; Sidelite: ASTM E330-02

Impact Resistance:

Component	Impact Resistant	Requirement
Opaque Doors	Yes	These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I and Seaward zone . The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

Impact Resistance:

Component	Impact Resistant	Requirement
Sidelites	No	Impact protective system required when product is installed in areas where windborne debris protection is required

Installation:

System			
1-9	Type of Installation	Door Frame	
	Wall Framing	Spruce-Pine-Fir	
	Fasteners	Minimum No. 10 x 2 1/2 " PFH wood screw	
	Fastener Embedment	Minimum of 1 1/2 inches into the wall framing	
	Fastener Location/Spacing	Head	The doors and sidelites shall be installed in strict accordance with this product evaluation report and Therma-Tru Corporation drawings TX-4177, TX-4178, TX-4179, TX-4180, TX-4181, TX-4182, TX-4183, TX-4176 and TX-4177, dated July 16, 2012, signed and sealed by Lyndon F. Schmidt, P.E. on November 19, 2012.
		Sill	
		Side Jamb	
Hinges			

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.